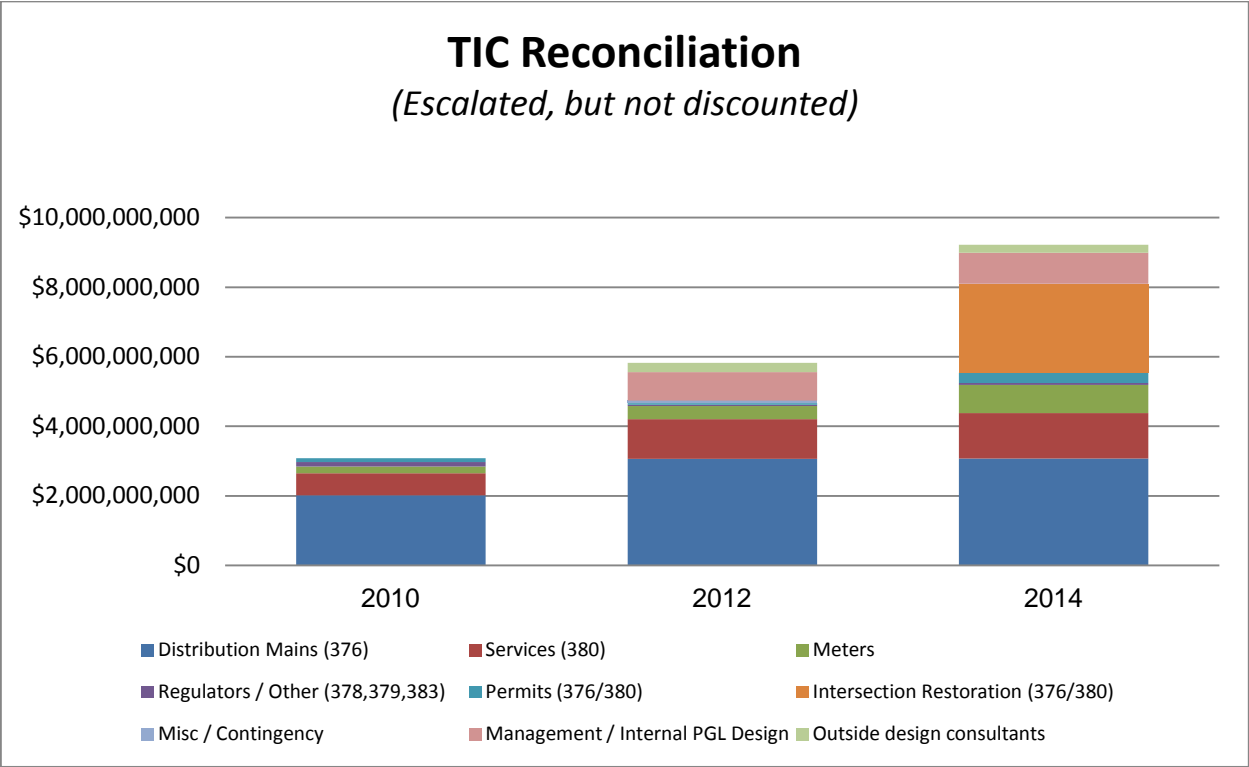


Capital Cost Reconciliation

Comparison of Program Element Costs



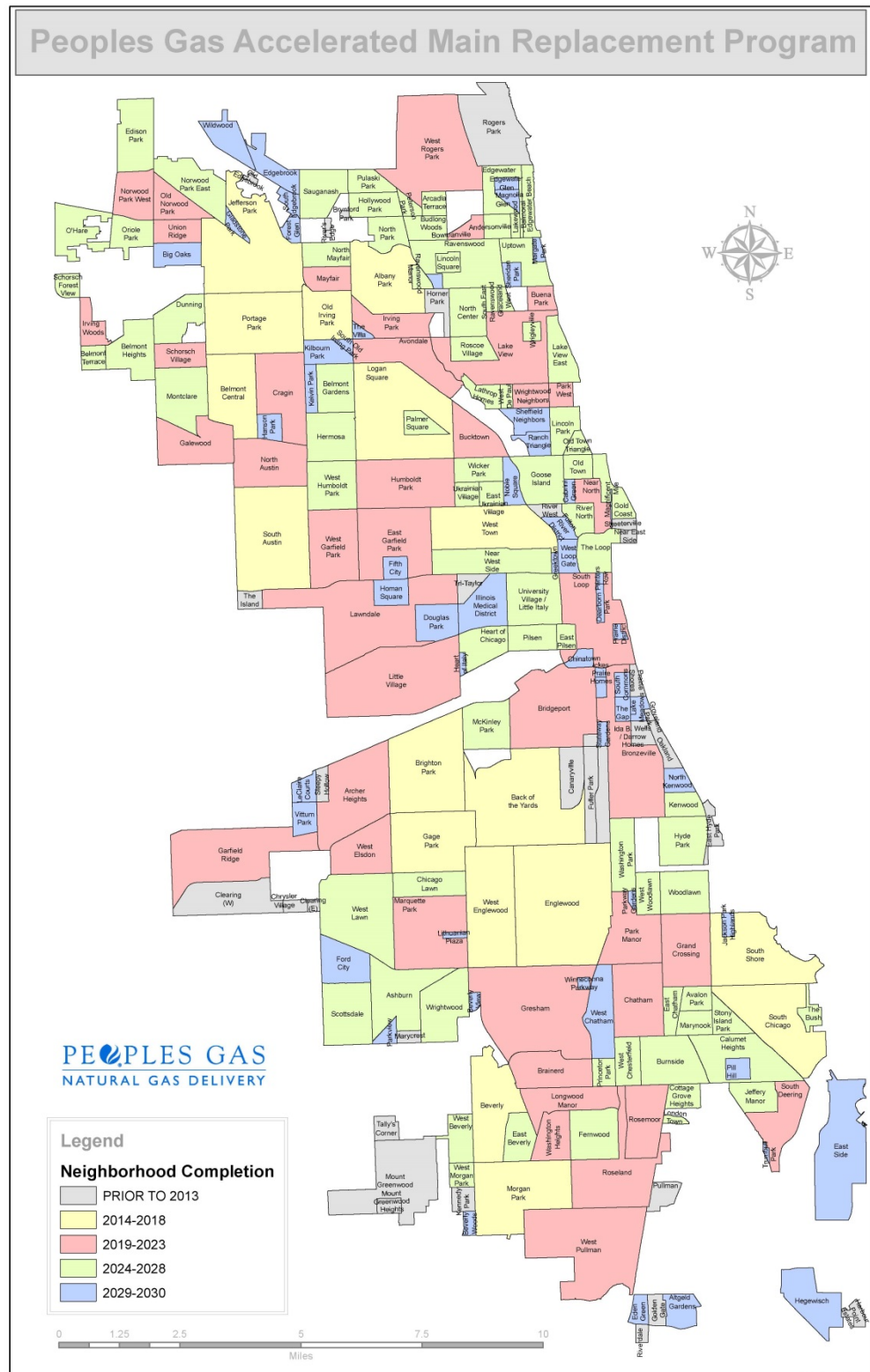
|   |                        |   |
|---|------------------------|---|
| <b>2012 Estimate*</b>                             | <b>\$5,826,360,000</b> |   |
| Decrease main/mile UR based on PTD                | -\$66,850,000          | ~\$22K/mile, includes basic restoration       |
| Increased main to install                         | \$125,650,000          | 190 add'l miles                               |
| Rail Premium / Deep Shoring                       | \$81,000,000           | 137 at-grade crossings                        |
| Increased services UR based on PTD                | \$3,000,000            | ~\$10/service, includes basic restoration     |
| Increased services to install                     | \$130,150,000          | ~43,550 add'l services                        |
| Increased meter UR based on PTD                   | \$175,800,000          | ~\$430 / meter                                |
| Increased meters to install                       | \$152,950,000          | ~131,800 meters                               |
| Increase HP Dist/Mile UR based on PTD             | \$92,200,000           | ~\$1,500,000 / mile, excluding restoration    |
| Decreased HP Distribution Line to Install         | -\$200,200,000         | ~31 miles less                                |
| Increase in abandoned PRS unit price based on PTD | \$1,450,000            | ~\$4,500/unit<br>5                            |
| Increased in number of PRS to abandon             | \$250,000              | additional                                    |
| Increase in New PRS unit rate based on PTD        | \$6,000,000            | ~\$117,000 / unit                             |
| Increase in gate house unit rate based on PTD     | \$250,000              | ~\$104,000 / unit                             |
| Decrease in number of permits                     | -\$14,700,000          | ~34,000 permits @\$435 ea                     |
| Moratorium permits and penalties                  | \$62,400,000           | ~21,500 permits @\$870+\$3,500 penalty        |
| Permit - Open hole charges                        | \$102,300,000          | \$4-\$40/LF for 17,137,000 LF - 180 days      |
| Intersection Restoration                          | \$1,979,950,000        | 22,490 intersections @ ~\$90,000/intersection |
| Lower Design Percentage over mains and services   | -\$26,000,000          | .009% lower rate                              |
| Increased mains and service cost                  | \$9,400,000            | \$167,000,000 increased main/services cost    |
| Escalation  | \$571,000,000          |   |
| other   | <u>\$210,340,000</u>   |   |
| <b>2014 Estimate*</b>                             | <b>\$9,222,700,000</b> |   |

## **Actions**

Actions based on analysis of output.

## **Appendices**

**Appendix A - Neighborhood Map**



**Appendix B - Neighborhood Rank**

| Neighborhood         | MP Ductile Iron Main | CI Main Older than 1920 | Un-repaired Leaks | 8" or smaller CI Main | Inside Meters |
|----------------------|----------------------|-------------------------|-------------------|-----------------------|---------------|
| South Chicago        | 227                  | 221                     | 222               | 216                   | 220           |
| Jefferson Park       | 197                  | 218                     | 216               | 228                   | 228           |
| Albany Park          | 201                  | 225                     | 227               | 218                   | 207           |
| Altgeld Gardens      | -                    | -                       | -                 | -                     | -             |
| South Austin         | 178                  | 227                     | 223               | 226                   | 226           |
| Logan Square         | 186                  | 224                     | 224               | 213                   | 225           |
| Portage Park         | 224                  | 216                     | 149               | 223                   | 222           |
| Gresham              | 187                  | 203                     | 208               | 219                   | 223           |
| Groveland Park       | -                    | -                       | -                 | -                     | -             |
| Lake View            | 149                  | 228                     | 228               | 220                   | 221           |
| Beverly              | 191                  | 199                     | 199               | 221                   | 215           |
| Irving Park          | 212                  | 214                     | 224               | 191                   | 165           |
| Belmont Central      | 204                  | 157                     | 208               | 208                   | 216           |
| West Englewood       | 147                  | 222                     | 213               | 217                   | 209           |
| Roseland             | 181                  | 210                     | 193               | 204                   | 206           |
| Chatham              | 159                  | 208                     | 206               | 210                   | 201           |
| Edgewater            | 209                  | 209                     | 211               | 175                   | 148           |
| Morgan Park          | 228                  | 76                      | 193               | 212                   | 203           |
| Marquette Park       | 139                  | 198                     | 211               | 209                   | 195           |
| Marycrest            | -                    | -                       | -                 | -                     | -             |
| Brighton Park        | 210                  | 189                     | 166               | 182                   | 190           |
| West Town            | 171                  | 206                     | 199               | 166                   | 211           |
| Rogers Park          | 221                  | 204                     | 130               | 188                   | 177           |
| Gage Park            | 165                  | 202                     | 189               | 199                   | 174           |
| West Pullman         | 142                  | 212                     | 184               | 206                   | 194           |
| Old Irving Park      | 200                  | 211                     | 149               | 183                   | 182           |
| Grand Crossing       | 163                  | 213                     | 160               | 200                   | 196           |
| Park Manor           | 133                  | 219                     | 175               | 203                   | 200           |
| Wrightwood Neighbors | 214                  | 196                     | 193               | 157                   | 138           |
| Mayfair              | 217                  | 179                     | 193               | 164                   | 136           |
| South Shore          | 225                  | 226                     | -                 | 227                   | 219           |
| North Austin         | 216                  | 148                     | 175               | 146                   | 192           |
| South Deering        | 183                  | 175                     | 160               | 185                   | 173           |
| Garfield Ridge       | 206                  | -                       | 175               | 225                   | 218           |
| West Elsdon          | 198                  | 82                      | 160               | 211                   | 183           |
| Lawndale             | 141                  | 207                     | 199               | 158                   | 187           |
| Rosemoor             | 168                  | 150                     | 184               | 179                   | 179           |
| Schorsch Village     | 205                  | 121                     | 175               | 174                   | 158           |
| East Garfield Park   | 161                  | 188                     | 142               | 167                   | 214           |
| North Mayfair        | 176                  | 164                     | 175               | 171                   | 162           |
| Archer Heights       | 194                  | 131                     | 142               | 181                   | 189           |
| Bridgeport           | 177                  | 195                     | 199               | 132                   | 156           |
| Galewood             | 211                  | -                       | 218               | 186                   | 176           |
| Bucktown             | 196                  | 144                     | 208               | 100                   | 204           |
| Andersonville        | 207                  | 183                     | 130               | 168                   | 133           |
| Bronzeville          | 148                  | 220                     | 166               | 150                   | 168           |
| West Rogers Park     | -                    | 205                     | 219               | 224                   | 227           |
| Englewood            | -                    | 223                     | 213               | 215                   | 224           |

| Neighborhood       | MP Ductile Iron Main | CI Main Older than 1920 | Un-repaired Leaks | 8" or smaller CI Main | Inside Meters |
|--------------------|----------------------|-------------------------|-------------------|-----------------------|---------------|
| West Woodlawn      | 156                  | 190                     | 160               | 161                   | 157           |
| Norwood Park West  | 190                  | 105                     | 110               | 195                   | 184           |
| Avondale           | 199                  | 181                     | 142               | 129                   | 159           |
| Cragin             | -                    | 201                     | 219               | 214                   | 217           |
| Back of the Yards  | 170                  | 176                     | 160               | 141                   | 149           |
| Ravenswood         | -                    | 215                     | 221               | 201                   | 208           |
| Brainerd           | 145                  | 109                     | 130               | 192                   | 199           |
| East Chatham       | 152                  | 173                     | 166               | 159                   | 129           |
| Humboldt Park      | -                    | 217                     | 213               | 197                   | 212           |
| Bowmanville        | 213                  | 135                     | 175               | 116                   | 123           |
| Stony Island Park  | 173                  | 140                     | 110               | 172                   | 162           |
| Streeterville      | -                    | -                       | -                 | -                     | -             |
| Tally's Corner     | -                    | -                       | -                 | -                     | -             |
| Near North         | 137                  | 180                     | 206               | 114                   | 147           |
| Oriole Park        | 219                  | -                       | 130               | 184                   | 166           |
| Little Village     | 175                  | 200                     | 149               | 107                   | 139           |
| Montclare          | 184                  | -                       | 184               | 153                   | 191           |
| West Lawn          | -                    | 166                     | 184               | 222                   | 210           |
| Park West          | 208                  | 139                     | 149               | 111                   | 117           |
| South Loop         | 164                  | 192                     | 189               | 65                    | 154           |
| Avalon Park        | 172                  | 174                     | 88                | 154                   | 137           |
| Longwood Manor     | 202                  | -                       | 130               | 169                   | 169           |
| Old Norwood Park   | 144                  | 178                     | 88                | 178                   | 124           |
| Calumet Heights    | -                    | 170                     | 175               | 202                   | 213           |
| Ashburn            | 135                  | -                       | 130               | 205                   | 205           |
| West Garfield Park | 151                  | 159                     | 149               | 126                   | 121           |
| Uptown             | -                    | 187                     | 199               | 180                   | 181           |
| Union Ridge        | 185                  | -                       | 110               | 177                   | 155           |
| Lincoln Park       | -                    | 197                     | 199               | 156                   | 180           |
| Washington Heights | 222                  | 119                     | -                 | 160                   | 144           |
| Kenwood            | 179                  | 168                     | 58                | 135                   | 122           |
| Edgewater Beach    | 189                  | 141                     | 88                | 105                   | 139           |
| Irving Woods       | 193                  | -                       | 88                | 173                   | 160           |
| Roscoe Village     | -                    | 191                     | 184               | 170                   | 161           |
| Buena Park         | 155                  | 132                     | 149               | 99                    | 126           |
| Budlong Woods      | -                    | 155                     | 175               | 187                   | 164           |
| Norwood Park East  | -                    | 154                     | 130               | 196                   | 202           |
| Near West Side     | 166                  | 108                     | 110               | 125                   | 109           |
| Fernwood           | -                    | 186                     | 130               | 190                   | 169           |
| McKinley Park      | 157                  | 146                     | 58                | 121                   | 150           |
| Woodlawn           | -                    | 177                     | 175               | 142                   | 172           |
| Lake View East     | -                    | 169                     | 199               | 137                   | 146           |
| River North        | 169                  | 117                     | 149               | 66                    | 96            |
| River West         | -                    | -                       | -                 | -                     | -             |
| Riverdale          | -                    | -                       | -                 | -                     | -             |
| River's Edge       | -                    | -                       | -                 | -                     | -             |
| Edison Park        | 192                  | 80                      | 130               | 76                    | 95            |
| Washington Park    | -                    | 194                     | 166               | 155                   | 119           |

| Neighborhood                      | MP Ductile Iron Main | CI Main Older than 1920 | Un-repaired Leaks | 8" or smaller CI Main | Inside Meters |
|-----------------------------------|----------------------|-------------------------|-------------------|-----------------------|---------------|
| Wentworth Gardens                 | -                    | -                       | -                 | -                     | -             |
| Heart of Chicago                  | -                    | 133                     | 217               | 115                   | 167           |
| West Morgan Park                  | 215                  | -                       | 110               | 113                   | 86            |
| Gold Coast                        | -                    | 156                     | 189               | 117                   | 175           |
| Golden Gate                       | -                    | -                       | -                 | -                     | -             |
| The Loop                          | -                    | 172                     | 224               | 68                    | 193           |
| The Robert Taylor Homes           | -                    | -                       | -                 | -                     | -             |
| Sauganash                         | -                    | -                       | 193               | 193                   | 197           |
| Sauganash Woods                   | -                    | -                       | -                 | -                     | -             |
| North Center                      | -                    | 158                     | 193               | 144                   | 120           |
| Magnolia Glen                     | 195                  | 120                     | 88                | 91                    | 56            |
| West Humboldt Park                | -                    | 193                     | 130               | 176                   | 103           |
| West Beverly                      | 218                  | -                       | 58                | 131                   | 102           |
| Arcadia Terrace                   | -                    | 163                     | 166               | 151                   | 115           |
| University Village / Little Italy | 143                  | 89                      | 130               | 75                    | 111           |
| East Pilsen                       | 139                  | 127                     | 149               | 73                    | 54            |
| Princeton Park                    | 145                  | -                       | 110               | 140                   | 106           |
| Palmer Square                     | -                    | 160                     | 166               | 130                   | 128           |
| Dunning                           | 223                  | -                       | 88                | 92                    | 81            |
| Chicago Lawn                      | -                    | 184                     | 142               | 152                   | 94            |
| Pilsen                            | -                    | 134                     | 189               | 88                    | 178           |
| Burnside                          | -                    | 185                     | 110               | 127                   | 153           |
| Goose Island                      | 188                  | 152                     | -                 | 71                    | 97            |
| Belmont Heights                   | -                    | -                       | 110               | 207                   | 188           |
| Ravenswood Manor                  | -                    | 151                     | 166               | 124                   | 97            |
| Wrightwood                        | -                    | -                       | 110               | 198                   | 185           |
| Marynook                          | -                    | 87                      | 149               | 139                   | 134           |
| Kilbourn Park                     | -                    | 161                     | 110               | 128                   | 130           |
| Wrigleyville                      | -                    | 167                     | 110               | 134                   | 113           |
| Lincoln Square                    | -                    | 165                     | 110               | 136                   | 110           |
| Hollywood Park                    | -                    | 115                     | 160               | 123                   | 114           |
| West Chesterfield                 | -                    | 124                     | 110               | 133                   | 151           |
| South East Ravenswood             | 180                  | 81                      | -                 | 85                    | 116           |
| O'Hare                            | 226                  | -                       | 88                | 56                    | 51            |
| Old Edgebrook                     | -                    | -                       | -                 | -                     | -             |
| Belmont Terrace                   | 161                  | -                       | -                 | 145                   | 126           |
| Ukrainian Village                 | -                    | 147                     | 142               | 94                    | 135           |
| Wicker Park                       | -                    | 130                     | 149               | 67                    | 186           |
| Wildwood                          | -                    | -                       | -                 | -                     | -             |
| Old Town Triangle                 | -                    | 149                     | 142               | 108                   | 105           |
| East Ukrainian Village            | -                    | 137                     | 149               | 86                    | 141           |
| Eden Green                        | -                    | -                       | -                 | -                     | -             |
| Ravenswood Gardens                | 160                  | 93                      | 58                | 80                    | 48            |
| North Park                        | -                    | 145                     | 58                | 147                   | 143           |
| Belmont Gardens                   | -                    | 142                     | 166               | 96                    | 78            |
| Edgewater Glen                    | -                    | 171                     | 142               | 98                    | 75            |
| Scottsdale                        | -                    | -                       | 58                | 194                   | 198           |
| The Bush                          | -                    | 182                     | 58                | 163                   | 67            |



| Neighborhood            | MP Ductile Iron Main | CI Main Older than 1920 | Un-repaired Leaks | 8" or smaller CI Main | Inside Meters |
|-------------------------|----------------------|-------------------------|-------------------|-----------------------|---------------|
| Big Oaks                | -                    | -                       | 110               | 165                   | 171           |
| Jeffery Manor           | -                    | -                       | 110               | 189                   | 131           |
| Trumbull Park           | 152                  | 86                      | 58                | 72                    | 55            |
| East Beverly            | -                    | 138                     | 58                | 149                   | 118           |
| Hermosa                 | -                    | 162                     | 88                | 120                   | 87            |
| Lathrop Homes           | 167                  | -                       | 88                | 74                    | 45            |
| Pulaski Park            | -                    | -                       | 110               | 162                   | 145           |
| Pullman                 | -                    | -                       | -                 | -                     | -             |
| Pill Hill               | -                    | 95                      | 110               | 118                   | 112           |
| Peterson Park           | -                    | 128                     | 110               | 110                   | 88            |
| Sheridan Park           | -                    | 143                     | 88                | 103                   | 108           |
| Old Town                | -                    | 136                     | 88                | 79                    | 152           |
| Forest Glen             | -                    | 110                     | 88                | 122                   | 90            |
| West De Paul            | 149                  | 102                     | -                 | 60                    | 68            |
| Hanson Park             | -                    | 126                     | 130               | 90                    | 68            |
| Harbour Point Estates   | -                    | -                       | -                 | -                     | -             |
| Cottage Grove Heights   | -                    | 77                      | 88                | 148                   | 76            |
| Printers Row            | -                    | 112                     | 166               | 63                    | 77            |
| Lakewood - Balmoral     | -                    | 123                     | 88                | 102                   | 85            |
| Kelvin Park             | -                    | 94                      | 110               | 95                    | 91            |
| Kennedy Park            | -                    | -                       | -                 | -                     | -             |
| Gladstone Park          | -                    | 111                     | 58                | 112                   | 107           |
| Graceland West          | -                    | 153                     | 58                | 101                   | 82            |
| Margate Park            | -                    | 122                     | 88                | 87                    | 89            |
| Schorsch Forest View    | 182                  | -                       | -                 | 55                    | 40            |
| Hyde Park               | 220                  | -                       | -                 | -                     | 59            |
| London Town             | 138                  | -                       | 88                | -                     | 73            |
| Douglas Park            | -                    | 118                     | 58                | 84                    | 82            |
| Parkview                | -                    | -                       | 88                | 119                   | 99            |
| Lithuanian Plaza        | -                    | 100                     | 88                | 82                    | 56            |
| Cabrini Green           | -                    | 98                      | 110               | 58                    | 60            |
| Edgebrook               | -                    | -                       | 58                | 138                   | 93            |
| West Chatham            | -                    | 91                      | -                 | 106                   | 132           |
| Prairie Shores          | 203                  | -                       | -                 | -                     | 58            |
| Noble Square            | -                    | 103                     | -                 | 83                    | 142           |
| Sheffield Neighbors     | -                    | 84                      | 88                | 69                    | 64            |
| Mount Greenwood         | 135                  | -                       | 88                | -                     | 35            |
| Mount Greenwood Heights | -                    | -                       | -                 | -                     | -             |
| Near East Side          | -                    | -                       | -                 | -                     | -             |
| Greektown               | -                    | 92                      | 58                | 64                    | 91            |
| Fifth City              | -                    | 99                      | -                 | 81                    | 125           |
| South Old Irving Park   | -                    | 116                     | -                 | 97                    | 79            |
| Chinatown               | -                    | 129                     | -                 | 70                    | 101           |
| Chrysler Village        | -                    | -                       | -                 | -                     | -             |
| Clearing (E)            | -                    | -                       | -                 | -                     | -             |
| Vittum Park             | -                    | -                       | -                 | 143                   | 104           |
| The Villa               | -                    | 97                      | 58                | 61                    | 63            |
| Clearing (W)            | 174                  | -                       | -                 | -                     | 41            |

| Neighborhood                | MP Ductile Iron Main | CI Main Older than 1920 | Un-repaired Leaks | 8" or smaller CI Main | Inside Meters |
|-----------------------------|----------------------|-------------------------|-------------------|-----------------------|---------------|
| South Edgebrook             | -                    | -                       | 58                | 109                   | 65            |
| Jackson Park Highlands      | -                    | 101                     | -                 | 93                    | 61            |
| West Loop Gate              | -                    | 104                     | 88                | -                     | 66            |
| Heart of Italy              | -                    | 107                     | 88                | -                     | 62            |
| Beverly View                | -                    | -                       | 58                | 77                    | 72            |
| Ickes Praire Homes          | -                    | 96                      | -                 | 58                    | 82            |
| Ford City                   | 158                  | -                       | -                 | -                     | -             |
| Stateway Gardens            | 154                  | -                       | -                 | -                     | -             |
| LeClaire Courts             | -                    | -                       | -                 | 104                   | 80            |
| Magnificent Mile            | -                    | 85                      | -                 | 57                    | 70            |
| Beverly Woods               | -                    | -                       | 58                | 78                    | 41            |
| The Gap                     | -                    | 125                     | 58                | -                     | 35            |
| South Commons               | -                    | 79                      | 58                | -                     | 73            |
| The Island                  | 134                  | -                       | -                 | -                     | -             |
| Ida B. Wells / Darrow Homes | -                    | 106                     | 58                | -                     | 39            |
| Winneconna Parkway          | -                    | -                       | -                 | 89                    | 71            |
| Dearborn Park               | -                    | 88                      | -                 | -                     | 100           |
| Prairie District            | -                    | 114                     | -                 | -                     | 47            |
| Lake Meadows                | -                    | 113                     | -                 | -                     | 41            |
| Homan Square                | -                    | -                       | 58                | -                     | 50            |
| Illinois Medical District   | -                    | 78                      | -                 | -                     | 48            |
| Ranch Triangle              | -                    | -                       | 58                | -                     | 45            |
| East Side                   | -                    | -                       | 58                | -                     | 41            |
| Horner Park                 | -                    | 83                      | -                 | -                     | 35            |
| Sleepy Hollow               | -                    | -                       | -                 | 62                    | -             |
| Dearborn Homes              | -                    | 90                      | -                 | -                     | -             |
| Brynford Park               | -                    | -                       | 58                | -                     | -             |
| Canaryville                 | -                    | -                       | 58                | -                     | -             |
| Fuller Park                 | -                    | -                       | 58                | -                     | -             |
| Fulton River District       | -                    | -                       | -                 | -                     | -             |
| Hegewisch                   | -                    | -                       | 58                | -                     | -             |
| Oakland                     | -                    | -                       | 58                | -                     | -             |
| Tri-Taylor                  | -                    | -                       | 58                | -                     | -             |
| North Kenwood               | -                    | -                       | -                 | -                     | 53            |
| Parkway Gardens             | -                    | -                       | -                 | -                     | 52            |
| East Hyde Park              | -                    | -                       | -                 | -                     | 35            |